



PROFICIENCY TESTING REPORT
ISHTM-AIIMS EXTERNAL QUALITY ASSURANCE PROGRAMME
 NABL accredited program as per ISO/IEC 17043:2010 standard
 Organized By Department of Hematology, AIIMS, New Delhi-110029



Duration of stability testing - minimum upto 8 days at ambient temp. after dispatch of specimens

EQAP CODE No. : 2075

Distribution No.: 163-E

Month/Year: March/2024

Instrument ID: NIHON KOHDEN

Model Name.: MEK6510

Serial No.: 7468

Name & Contact No. of PT Co-ordinator: Dr. Manoranjan Mahapatra (Prof. & Head), Hematology, AIIMS, Delhi,
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Date of issue & status of the report: 06-05-2024[Final].

CBC and Retic Assessment

Test Parameters	S.No.	Among Lab (Accuracy Testing)						Within Lab (Precision Testing)			
		Your Result 1	Your Result 2	Your Results Sum of 2 Value	Consensus result sum of 2 values (Assigned Value)	Uncertainty of Assigned Values	Z Score	Yours Results Diff. of 2 Values	Consensus Result Diff. of 2 values (Assigned Value)	Uncertainty of Assigned Values	Z Score
WBC x10 ³ /µl	1	5.7	5.7	11.4	11.03	0.031	0.42	0	0.1	0.006	-0.84
RBC x10 ⁶ /µl	1	3.71	3.67	7.38	7.38	0.009	0.02	0.04	0.03	0.002	0.34
Hb g/dl	1	13.4	13.3	26.7	25.5	0.027	1.80	0.1	0.1	0.007	0.00
HCT%	1	40.1	39.6	79.7	78.7	0.141	0.23	0.5	0.4	0.024	0.27
MCV-fl	1	108	108	216	212.9	0.298	0.36	0	0.3	0.020	-0.81
MCH-Pg	1	36.5	35.8	72.3	69.3	0.087	1.32	0.7	0.3	0.018	1.46
MCHC-g/dl	1	33.8	33.2	67	64.75	0.119	0.65	0.6	0.3	0.020	1.01
Plt. x10 ³ /µl	1	136	135	271	319	1.365	-1.27	1	4	0.259	-0.67
Retic %	2										

P.S . Assesment

YOUR REPORT			CONSENSUS REPORT		
DLC%	3	Nrbcs = , Poly= L=, E=, Mono/Promono=, B1= P.M.=, Mye=, Meta=, Other=	Blast: 70-88, Poly: 5-9, Lympho: 3-8, Myelo/Mono/Promyelo/Meta/Eos/Baso: 0-5		
RBC Morphology	3		Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Mild: Microcytosis, Poikilocytosis		
Diagnosis	3		Acute Myeloid Leukemia(AML)		

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 163--E	Total No. responded	% of Labs with Z Score 0-2		% of Labs with Z Score 2-3		% of Labs with Z Score >3	
				Among labs	Within lab	Among labs	Within lab	Among labs	Within lab
WBC x10³/µl	1	333	331	86.4	93.05	5.44	1.81	8.16	5.14
RBC x10⁶/µl	1	333	333	89.19	93.99	6.91	2.7	3.9	3.31
Hb g/dl	1	333	333	87.39	90.39	6.91	4.5	5.7	5.11
HCT%	1	333	331	93.96	92.75	2.72	4.83	3.32	2.42
MCV-fl	1	333	330	91.82	92.73	5.45	2.73	2.73	4.54
MCH-Pg	1	333	330	89.7	88.48	6.06	4.24	4.24	7.28
MCHC-g/dl	1	333	330	92.42	88.48	4.55	4.24	3.03	7.28
Plt. x10³/µl	1	333	331	91.54	93.35	6.34	3.02	2.12	3.63
ReticCount%	2	333	294	95.92	86.05	2.72	8.84	1.36	5.11
PS Assessment	3	333	289	Satisfactory :95.5%, Borderline Sat. :4.20%, Unsatisfactory :0.30%					

***Comments:**

1). Among Lab (EQA) : PS Diagnosis not reported, Results acceptable.

2). Within Lab (IQA) : Precision acceptable.

Note-1: EQA (External Quality Assurance) : Your Performance among various of participating labs in PT, to determine the accuracy of your results.

IQA (Internal Quality Assurance) : Your Performance of comparison of two consecutive measurement values within your lab to test the precision of your autoanalyzer.

Note-2: Z score among & within lab were calculated, as per to ISO/IEC 13528:2015 standard. Z score among lab (EQA)= (Your Result Sum of two values - Consensus Result sum of two values)/(Normalised IQR)

Z score within lab (IQA)= (Your Result Difference of two values - Consensus Result difference of two values)/(Normalised IQR)

IQR = Quartile 3 - Quartile 1 of participant data, Normalised IQR = 0.7413 x IQR

Note-3: Z score 0 to ± 2 : Acceptable, Z score ± 2 to ± 3 :Warning Signal, Z score $> \pm 3$: Unacceptable [As per ISO/IEC 13528:2015 standard]

Note-4: Z score value between "0 to ± 2 " are texted in green colour. Z score value between " ± 2 to ± 3 " are texted in orange colour. Z score value $> \pm 3$ are texted in red colour.

Note-5: Homogeneity and stability testing of PT sample were done as per ISO 13528:2015 standard. To pass homogeneity test, between sample SD (Ss) should be smaller than the check value (0.3*SDPA). To pass the stability test, average difference in measurement values of first and last day sample ($\bar{x}-\bar{y}$) should be smaller than the check value (0.3*SDPA).

Note-6: ISHTM-AIIMS-EQAP does not subcontract any task of its scheme

Note-7: Participants are free to use methods/analyzer of their own choice.

Note-8: Proficiency testing (PT) samples are sent quarterly to each participant.

Note-9: All the necessary details regarding design and implementation of PT, are provided in the instruction sheet as well as on programme's website www.ishtmaiimseqap.com.

Note 10: Reports are kept confidential.

Report authorized by,



Dr. Manoranjan Mahapatra (Prof. & Head)

PT Co-ordinator: ISHTM-AIIMS-EQAP

Department of Hematology, AIIMS, New Delhi

-----End Of Report-----